

Cathode for coating a substrat .

Patent Number: EP0549854
Publication date: 1993-07-07
Inventor(s): WOLF BERND (DE); MUELLER JUERGEN DR (DE); NEUDERT HANS
Applicant(s): LEYBOLD AG (DE)
Requested Patent: ☐ EP0549854, B1
Application: EP19920111759 19920710
Priority Number(s): DE19914143135 19911228
IPC Classification: C23C14/34; H01J37/34
EC Classification: C23C14/34B, H01J37/34M2A
Equivalents: ES2084886T
Cited Documents: DE3727901; US4401539; EP0337012

Abstract

In the case of a cathode for coating a substrate (46), which cathode is connected to a DC and/or AC power source (high-frequency source), is arranged in a coating chamber (2) which can be evacuated, and is electrically connected to a target (29), and the cathode is formed from an essentially pot-shaped housing (3), the outer surface of whose closed base part (58) is firmly connected to the target (29) and whose open end facing away from the target (29) is held in a sealed manner in an opening in the outer wall (30) of the coating chamber (2), such that the interior (49) of the housing (3) is always subject to atmospheric pressure, while the target (29) and the outer surface (62) of the sleeve-shaped part of the housing (3) which is connected thereto and projects into the coating chamber (2) is acted on by the pressure respectively prevailing in the coating chamber (2), an insert (8) being provided which at least partially fills the interior (49) of the housing (3) and, with the base part (58), forms an approximately circular-cylindrical space into which a magnet set

(5, 4, 61) having a yoke (6) can be inserted. 

Data supplied from the esp@cenet database - I2